## Classwork 11 Intermediate Algebra MTH 35 Topic: Logarithm

Name: \_ Evaluate the expressions: 1.  $\log_9 81$ ANSWER **2.**  $\log_2 16$ ANSWER 3.  $\log_9 \sqrt{3}$ ANSWER 4.  $2^{\log_2 7}$ ANSWER 5.  $\log_5 \frac{1}{25}$ 

Use definition of logarithm to find *x*:

6.  $\log_3 x = 2$ 

ANSWER

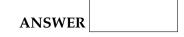
7.  $\log_4 x = 2$ 

8.  $\log_x 8 = 3/2$ 

9.  $\log_2(2x-1) = 3$ 

ANSWER

10.  $\log_2 x + \log_2 3x = 4$ 



ANSWER